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January 7, 1993

Mr. Ralph O. Howard, Jr.  
Project Coordinator  
United States Environmental Protection Agency  
Region IV - Waste Management Division  
345 Courtland Street, N.E.  
Atlanta, GA 30365

Subject: Medley Farm Site RD/RA Monthly Report - December 1992.

Dear Mr. Howard:

The following submittal constitutes RMT's monthly report to the US EPA regarding the Medley Farm Site RD/RA for December 1992. This report is submitted on behalf of the Medley Farm Site Steering Committee (Steering Committee) to satisfy the requirements of Section XI, Paragraph 30 of the Consent Decree entered into by EPA and the members of the Steering Committee. This monthly report describes tasks initiated or completed as part of the RD/RA for the Medley Farm Site during the reporting period.

#### **PROJECT TASKS INITIATED OR COMPLETED DURING THE MONTH OF DECEMBER 1992**

##### **MONITORING OF EXISTING SITE CONDITIONS**

##### **Site Characterization:**

###### *Implement Quarterly Sampling and Analysis Plan*

- Analytical results from the third quarterly sampling were transmitted to the US EPA under separate cover.
- Sampling for the fourth quarter's ground water monitoring activities were completed.

##### **SCOPING AND INITIAL DATA COLLECTION ACTIVITIES**

##### **Scoping and Review Activities:**

###### *Review Existing Information and Guidance*

- Completed

###### *Collection of Additional Site Data*

- No activities to report this period.

###### *Treatability/Pilot Testing*

- RMT conducted a preliminary pumping test at monitoring well SW-4 and attempted to



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conduct a similar test at SW-108. The well yield from SW-108 would not support the proposed pump testing. Hydraulic conductivity tests will now be performed on all new wells in this area, including: SW-201, BW-201, SW-202, and BW-202.

- As a part of the fourth quarterly sampling event, RMT collected additional samples from SW-4 and SW-108 to assess the scaling, corrosion, and precipitation potential of the site ground water. These data will be used in conjunction with the Pre-Final design activities that will be conducted during the Spring 1993.
- Concurrent with the fourth quarterly sampling event, RMT also collected flow measurements and 24-hour composite samples from Jones Creek at a location in the stream up-gradient of the unnamed tributary and at a location below the confluence of the unnamed tributary and Jones Creek (near BW-3). These supplemental data will be used to aid in the development of the NPDES permit for the ground water treatment system. Primarily, these data will be used to identify the approximate flow of the stream, hardness, and base concentrations of inorganic constituents present in the stream.
- RMT has begun preliminary preparations for installation and field testing of the three ground water recovery wells, two soil vapor extraction wells, and twelve vapor monitoring wells proposed in the preliminary design report. Barring unforeseen difficulties, we expect to begin the field work for these activities by the end of January 1993.

#### *Health & Safety Plan*

- Completed.

### **REMEDIAL DESIGN ACTIVITIES**

#### **Remedial Design Planning**

##### *RD Work Plan*

- Completed and approved by US EPA.

#### **Preliminary Design**

- The Preliminary Design Report was submitted to the US EPA and SC DHEC for review and comment on November 19, 1992. Agency comments and approval of the Preliminary Design Report and accompanying drawings were received in a letter dated December 23, 1992.

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### Prefinal/Final Design

- No activity to report this period.

### REMEDIAL ACTION

#### Well Installation

Ground water recovery wells A-1, B-1, and A-4 (described in the Preliminary Design Report) have been proposed for installation during the first quarter of 1993. Similarly soil vapor extraction wells VE-101 and VE-301 (along with six nested vapor monitoring wells) have also been proposed for installation. These systems are part of the final system that will eventually be installed at the Medley Farm Site. The purpose of these proposed field activities is to collect additional field data prior to development of the Pre-Final Design Report scheduled for submission in late May 1993.

### OPERATION AND MAINTENANCE

There are no current activities to report on at this time in the project.

### PERFORMANCE MONITORING

There are no current activities to report on at this time in the project.

### PROJECT TASKS PLANNED FOR THE MONTH OF JANUARY 1993

The following activities are scheduled for the next reporting period beginning January 1, 1993 and continuing through January 31, 1993:

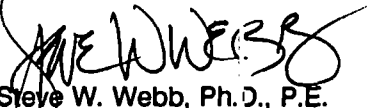
- In a letter dated December 15, 1992, RMT requested a meeting with the US EPA and SC DHEC to discuss the Preliminary Design Report, general project progress, and the third quarterly analytical results. This meeting has been scheduled for Friday, January 8, 1993 at RMT's Greenville office beginning at 10:00 A.M.
- Conduct analyses on samples from fourth quarterly sampling event.
- Re-sample BW-111 and BW-112 in accordance with the information provided in the December 15, 1992 correspondence.
- Continue preparations for installation and field testing of the three ground water recovery wells, two SVE wells, and twelve vapor monitoring wells.
- Prepare project change notice for revised method of aerating purge water from wells following sampling activities.
- Prepare waiver request for storm water permitting for submittal to SC DHEC.

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Ralph, if you have any questions or comments regarding the material provided herein, please contact either myself or David Nichols.

Sincerely,

RMT, Inc.



Steve W. Webb, Ph.D., P.E.  
Project Coordinator

cc: Medley Farm Site Steering Committee Distribution  
File 938.08 (C)